

Product Specification Sheet

Product Name: BIBR-1048 (Dabigatran etexilate)

Catalog Number: C2104

Technical information:

Chemical Formula: $C_{34}H_{41}N_7O_5$

CAS #: 211915-06-9

Molecular Weight: 627.73

Purity: > 98%

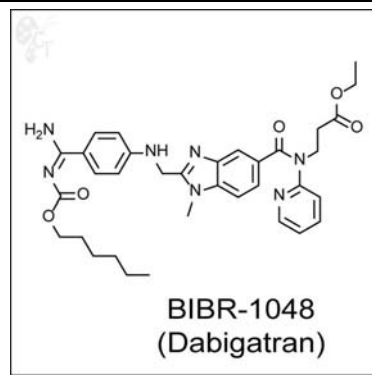
Appearance: white solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: (E)-ethyl 3-(2-((4-(N'-(hexyloxycarbonyl)carbamimidoyl)phenylamino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



- Handling:**
- To make 10 mM stock solution, add 0.159mL of DMSO for each mg of BIBR-1048 (Dabigatran etexilate).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: BIBR-1048 (Dabigatran etexilate) is an orally-active, non-covalent, reversible inhibitor of thrombin. It is the double ester prodrug of BIBR-953, which has an IC₅₀ against thrombin and trypsin at 9.3, and 50.3 nM, respectively. (1) In addition to inhibiting free thrombin, BIBR-1048 also inhibits thrombin generation, fibrin-bound thrombin, and thrombin-induced platelet aggregation. (2)

Reference: 1. Abbenante et al., Protease Inhibitors in the Clinic, Med. Chem. 2005, 1, 71-104. Pubmed ID: 16789888

2. Jackson, J.M., Drug Review - Dabigatran for stroke prevention in atrial fibrillation, Drugs in Context, 2011, 6, 11-28.

To reorder: <http://www.cellagentech.com/BIBR-1048-Dabigatran-etexilate/>
For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.